

Comparative study amongst surgical resection & radiofrequency in treatment of hepatocellular carcinoma

Table (1): Demographic and Biochemical comparison between the two groups of the study:

Variable	Groups		Test of significance	P-Value
	Group A(No. 20) No (%)	Group B (No. 20) No %		
Gender			Fisher exact test: 0.002	> 0.05
Male	16 80%	17 85%		
Female	4 20%	3 15%		
Age in years	Mean $\pm$ SD	Mean $\pm$ SD	t- test: 1.09	> 0.05
	58.14 $\pm$ 6.12	54.42 $\pm$ 7.04		
Child score				
Child A	20 100%	20 100%		
ALT	51.07 $\pm$ 15.2	69.3 $\pm$ 15.7	t –test:3.95	<0.01**
AST	48.11 $\pm$ 13.74	61.3 $\pm$ 17.2	t –test:2.83	<0.01**
Albumin (g/dl)	4.28 $\pm$ 0.88	4.05 $\pm$ 1.20		0.08
Bilirubin (mg/dl)	1.06 $\pm$ 0.86	0.97 $\pm$ 0.49		0.27
AFP (ng/ml)	138.7 $\pm$ 284.5	703.9 $\pm$ 866.14	Mann Whitney test:2.51	<0.001**
No (%) of Cirrhotic patients	13(65%)	12(60%)		> 0.05
HCV	20 (100%)	20 (100%)		

Table (2): Intraoperative data.

	Groups		t-test	p- value
	Group A (no. 20)	Group B (no.20)		
	Mean $\pm$SD	Mean $\pm$ SD		
<i>Operative time/ min</i>	308 $\pm$ 91.16	200 $\pm$ 37.16	5.24	< 0.01**
<i>Resection time/ min</i>	90.3 $\pm$ 18.6	44.6 $\pm$ 5.55	11.25	< 0.01**
<i>Blood loss/ ml</i>	447.4 $\pm$ 45.7	65.91 $\pm$ 10.84	3.89	< 0.01**
<i>Blood transfusion in units</i>	1,69 $\pm$ 1.33	0.09 $\pm$ 0.43	4.79@	< 0.01**

@ Mann Whitney test

Table (3): Postoperative complications.

Complications	Groups				X ² test:	P-Value
	Group A (No. 20)		Group B (No. 20)			
	No	%	No	%		
Postoperative Hemorrhage						
Yes	3	15%	0	0%	1.44**	< 0.05***
No	17	85%	20	100%		
Bile leak						
Yes	3	15%	1	5%	4.29	< 0.05***
No	17	85%	19	95%		
Wound infection						
Yes	1	5%	1	5%	1.22*	> 0.05
No	19	95%	19	95%		
Fluid collection(ascites)						
Yes	4	20%	3	15%	0.0*	> 0.05
No	16	80%	17	85%		
Chest infection						
Yes	6	30%	1	5%	2.0*	<0.05***
No	14	70%	17	85%		

* Fisher exact test:

** Mann Whitney test.

P- value > 0.05 = Non Significance

P- value < 0.05*** = Significant

P- value < 0.01***** = Highly significant Follow up

Table (4): Laboratory follow up

Variable	Group A	Group B	P value
	Mean±SD	Mean±SD	
ALT	56.4 ± 4.35	58.2±4.3	> 0.05
AST	45.9± 5.6	51.3± 3.5	>0.05
AFP	58± 17.3	63.5±16.3	>0.05

Table (5): ICU and Hospital stay

	<i>Gro up A</i>	<i>Gro up B</i>	<i>X² test</i>	<i>P value</i>
	<i>Me an ±S D</i>	<i>Me an ± SD</i>		
ICU stay in days	3.8 7 ± 1.5 7	2.6 4 ± 0.7 3	3.36 **	< 0.01**
Hosp ital stay in days	15. 04 ± 3.6 4	10. 54 ± 3.2 6	4.36	< 0.01**

Table (6): Cost of both techniques (in thousand pounds)

<i>Technique</i>	<i>Mean± SD</i>	<i>P- value</i>
Liver resection	37.5±15.37	<0.05*
Radiofrequency	17±3.45	